

Table 1S. Predicted metabolic pathways and targeted predicted genes by modulated miRNAs.

PATHWAY	TARGETED GENES	GENE IDENTIFICATION
TGF-beta signaling pathway (hsa04350)	56	FST, TGFBR1, ID2, ROCK1, SMAD2, SMAD6, SMAD9, THBS1, PPP2CA, ACVR1B, SMURF2, BMPR1B, BMP5, PITX2, SMAD3, CUL1, INHBA, CDKN2B, LEFTY1, ID4, RHOA, ACVR1, SKP1, ACVR2B, ZFYVE16, DCN, SMAD4, E2F5, PPP2R1A, SMURF1, RBL1, SMAD5, ID1, ACVR2A, GDF6, BMP2, TFDP1, SP1, ACVR1C, TGFB2, EP300, BMPR1A, BAMBI, IFNG, LTBP1, ID3, SMAD7, NOG, MAPK1, CREBBP, PPP2R1B, LEFTY2, TGFBR2, BMP4, BMPR2, RPS6KB1
FoxO signaling pathway (hsa04068)	74	IRS2, BRAF, RBL2, STAT3, RAG1, TGFBR1, FBXO32, CCNB1, SOS2, SMAD2, NRAS, PRKAA2, STK4, SIRT1, PIK3CB, SETD7, KLF2, CCND2, SMAD3, CHUK, CAT, CDKN1B, IGF1R, EGFR, GADD45A, KRAS, HOMER2, ATM, NLK, G6PC, RAG2, PIK3R3, CCND1, SMAD4, S1PR1, SKP2, MAPK8, AKT1, GRM1, FOXG1, PIK3R1, SOS1, IRS1, INSR, PRKAA1, BCL6, PRKAB2, IGF1, TGFB2, CSNK1E, EP300, AKT3, SOD2, PRKAG2, PIK3CA, HOMER1, PRKAB1, FOXO3, USP7, ATG12, PTEN, SGK3, FOXO1, PLK4, MAPK1, CREBBP, IL10, CCNG2, TGFBR2, SGK1, MDM2, EGF, BCL2L11, C8orf44-SGK3
Wnt signaling pathway (hsa04310)	64	FZD7, CAMK2D, GSK3B, PRKCA, CSNK2A2, WNT16, FZD5, LRP6, TBL1X, BTRC, VANGL1, TCF7L2, WNT5A, CCND2, DKK2, ROCK2, PPP3R1, CTBP2, FRAT1, SMAD3, WNT2B, CUL1, WNT4, WNT3, LRP5, RHOA, FZD3, SKP1, PPP3CA, PRICKLE1, PLCB1, FZD4, SOST, GPC4, JUN, CCND1, SMAD4, CTNNB1, AXIN2, NFATC2, MAPK8, CSNK1A1, VANGL2, CSNK2B, CSNK2A1, PRKX, RAC1, SIAH1, SFRP2, FZD1, PRKCB, PRICKLE2, CSNK1E, EP300, CXXC4, LEF1, WNT9B, NFATC3, DAAM1, MAP3K7, CREBBP, DVL2, TBL1XR1
HIF-1 signaling pathway (hsa04066)	55	CAMK2D, STAT3, ERBB2, MAP2K2, PIK3CB, CUL2, GAPDH, PIK3R5, ARNT, CDKN1B, EIF4EBP1, IGF1R, TLR4, VHL, HK2, RPS6KB2, AKT2, PDHA1, PLCG1, ENO1, PIK3R3, HIF1A, AKT1, TFRC, EGLN3, PDK1, PIK3R1, LDHA, INSR, PLCG2, EGLN2, EP300, AKT3, EIF4E2, PIK3CA, CDKN1A, SLC2A1, MKNK1, PFKFB2, EDN1, MKNK2, MTOR, ALDOA, PFKL, RELA, VEGFA, MAPK1, CREBBP, PDHB, PFKFB4, TEK, PGK1, EGLN1, PFKFB3, IL6R